

CLAIMS

1. An electronic device, comprising:
an operating unit;
a displaying unit; and
5 a controlling unit that controls a display on the displaying unit in response to an operation of the operating unit;
wherein the operating unit senses an operation direction and an operation speed; and
wherein the controlling unit changes display contents on the displaying
10 unit based on a sensed result in accordance with the operation applied to the operating unit.
2. The electronic device according to claim 1, wherein a geometrical shape of the display contents displayed on the displaying unit are previously
15 determined to correspond with operable directions of the displaying unit.
3. The electronic device according to claim 1 or 2, wherein the controlling unit changes the display contents displayed on the displaying unit so that a changing direction of the display contents displayed on the displaying unit at
20 least partially corresponds with a direction of the operation applied to the operating unit.
4. The electronic device according to any one of claims 1 to 3, wherein the controlling unit changes the display contents on the displaying unit at a
25 speed that is corresponded to a speed of the operation applied to the operating

unit.

5. The electronic device according to any one of claims 1 to 4, wherein a function of changing the display contents by the operation of the operating unit
5 is switched in response to the display contents on the displaying unit.

6. The electronic device according to any one of claims 1 to 5, wherein the controlling unit scrolls the display contents on the displaying unit in response to the operation direction and the operation speed of the operating
10 unit.

7. The electronic device according to any one of claims 1 to 5, wherein the controlling unit enlarges the display contents on the displaying unit when the operating unit is operated in one direction, and scales down the display
15 contents on the displaying unit when the operating unit is operated in other direction.

8. The electronic device according to any one of claims 1 to 7, wherein the operating unit senses the operation direction by sensing a pressure.
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9. The electronic device according to claim 8, wherein the operating unit senses the operation position every predetermined time in response to a tracing operation, and calculates the operation direction and the operation speed.

25 10. The electronic device according to any one of claims 1 to 9, wherein

the operating unit has an annular operation button, and senses the operation direction and the operation speed in response to a circular tracing operation.

11. An input device, comprising:

5 a substantially circular center button provided in a center portion; and
a plurality of peripheral buttons arranged in multiple- concentrically on
an outer side to surround the center button;

wherein the center button and the peripheral buttons are arranged
within an area that can be covered with a finger of a fixed hand.

10 12. The input device according to claim 11, wherein a physical clearance
to avoid a wrong operation of another peripheral button when one peripheral
button is operated is provided between the peripheral buttons respectively.

15 13. The input device according to claim 11 or 12, wherein the peripheral
buttons have a different operating load to each other.

14. The input device according to any one of claims 11 to 13, wherein the
center button and the peripheral buttons are coupled via an elastic body with a
20 buffering function.

15. The input device according to any one of claims 11 to 14, wherein the
peripheral buttons are held on a part of the elastic body.

25 16. The input device according to any one of claims 11 to 15, wherein the

peripheral buttons are formed by a different peculiar surface shape or a different peculiar material to each other.

17. The input device according to any one of claims 11 to 16, wherein the
5 peripheral buttons perform an input of information independently separately from the center button.

18. The input device according to any one of claims 11 to 17, wherein the
peripheral buttons include a first operation button and a second operation
10 button; and

wherein one of the first operation button and the second operation button has a convex surface shape and the other has a concave surface shape.

19. A mobile electronic device, comprising:
15 the input device set forth in any one of claims 11 to 18;
a displaying unit that displays information input by the input device;
and

a controlling unit that controls a display on the displaying unit in response to an operation of each button provided on the input device;

20 wherein the input device has a function of sensing whether or not the operation of the each button is present and sensing an operation direction and an operation speed; and

wherein the controlling unit has a function of changing display contents on the displaying unit based on a sensed result in accordance with the
25 operation of the each button.